

## WEST Search History

DATE: Wednesday, August 09, 2006

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		<i>DB=PGPB,USPT,USOC,EPAB,DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L1	R-Loop and (nanoparticle or silver or gold or electrode or electronic or device)	39
<input type="checkbox"/>	L2	L1 and substrate	15
<input type="checkbox"/>	L3	saraf-R\$.in. or Wickramesinghe-H\$.in.	115
<input type="checkbox"/>	L4	L3 and electrode	35
<input type="checkbox"/>	L5	L4 and r-loop	8
<input type="checkbox"/>	L6	electrode same substrate	324421
<input type="checkbox"/>	L7	L6 and (DNA or RNA)	4505
<input type="checkbox"/>	L8	L7 and (R-loop)	10
<input type="checkbox"/>	L9	L7 and nanoparticle	619
<input type="checkbox"/>	L10	L9 and (R-loop)	10
<input type="checkbox"/>	L11	DNA and R-Loop	42
<input type="checkbox"/>	L12	bridge near DNA	243
<input type="checkbox"/>	L13	L9 and L12	10
<input type="checkbox"/>	L14	nanoparticle and R-Loop	11
<input type="checkbox"/>	L15	10657093	1
<input type="checkbox"/>	L16	L15 and linker	0
<input type="checkbox"/>	L17	10/657093	1
<input type="checkbox"/>	L18	L17 and linker	0
<input type="checkbox"/>	L19	L17 and sticky end	1
<input type="checkbox"/>	L20	L17 and (pair bond)	0
<input type="checkbox"/>	L21	L17 and (bonding or non-bond)	1
<input type="checkbox"/>	L22	L17 and (R-loop and (region near bond))	0
<input type="checkbox"/>	L23	L17 and (R-loop same (region near bond))	0
<input type="checkbox"/>	L24	L17 and sixth	1
<input type="checkbox"/>	L25	L24 and @pd > 20050901	0

END OF SEARCH HISTORY

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NEWS 9 MAY 30 The F-Term thesaurus is now available in CA/Caplus  
NEWS 10 JUN 02 The first reclassification of IPC codes now complete in  
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NEWS 15 JUL 19 Coverage of Research Disclosure reinstated in DWPI  
NEWS 16 AUG 09 INSPEC enhanced with 1898-1968 archive  
  
NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.  
  
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FILE 'HOME' ENTERED AT 17:44:33 ON 09 AUG 2006

=> file medline, caplus, biosis, scisearch, embase, biotechds, uspatful  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
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FILES 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, EMBASE, BIOTECHDS, USPATFULL'  
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7 FILES IN THE FILE LIST

=> s R-loop and (nanoparticle or silver or gold or electrode or electronic or device)

L1 85 R-LOOP AND (NANOPARTICLE OR SILVER OR GOLD OR ELECTRODE OR ELECTRONIC OR DEVICE)

=> s l1 and substrate

L2 13 L1 AND SUBSTRATE

=> dup rem l2

PROCESSING COMPLETED FOR L2

L3 13 DUP REM L2 (0 DUPLICATES REMOVED)

=> d ibib abs l3 1-13

L3 ANSWER 1 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2005:286943 USPATFULL

TITLE: Retrons for gene targeting

INVENTOR(S): Rozwadowski, Kevin L., Saskatoon Saskatchewan, CANADA  
Lydiate, Derek J., Saskatoon Saskatchewan, CANADA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005250207	A1	20051110
APPLICATION INFO.:	US 2003-516779	A1	20030605 (10)
	WO 2003-CA850		20030605
			20050629 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-60386640	20020605
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KLARQUIST SPARKMAN, LLP, 121 SW SALMON STREET, SUITE 1600, PORTLAND, OR, 97204, US	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	15 Drawing Page(s)	
LINE COUNT:	6502	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods and nucleic acid constructs that may be used to modify a nucleic acid of interest at a target locus within the genome of a host. In some aspects, the invention contemplates producing in vivo a gene targeting substrate (GTS), which may be comprised of both DNA and RNA components. The gene targeting substrate may comprise a gene targeting nucleotide sequence (GTNS), which is homologous to the target locus, but comprises a sequence modification compared to the target locus. The gene targeting substrate may be produced by reverse transcription of a gene targeting message RNA (gtmRNA). The gene targeting message RNA may be folded for self-priming for reverse transcription by a reverse transcriptase. The gene targeting message RNA may in turn be the product of transcription of a gene targeting construct (GTC) encoding the gene targeting message RNA. The gene targeting construct may for example be a DNA sequence integrated into the genome of the host, or integrated into an extrachromosomal element. Following expression of the gene targeting systems of the invention, hosts may for example be selected having genomic modifications at a target locus that correspond to the sequence

modification present on the gene targeting nucleotide sequence. In some embodiments, the structure of retrons may be adapted for use in the gene targeting systems of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2005:171759 USPATFULL  
TITLE: Pigment epithelium derived factor from human plasma and methods of use thereof  
INVENTOR(S): Shaltiel, Shmuel, Rehovot, ISRAEL  
Schvartz, Iris, Yavne, ISRAEL

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005148508	A1	20050707
APPLICATION INFO.:	US 2004-882638	A1	20040702 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	IL 2002-147444	20020103
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	WINSTON & STRAWN LLP, 1700 K STREET, N.W., WASHINGTON, DC, 20006, US	
NUMBER OF CLAIMS:	48	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	14 Drawing Page(s)	
LINE COUNT:	1649	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polypeptides of pigment epithelium derived factor (PEDF) isolated from human plasma and fragments thereof, methods for preparing them, pharmaceutical compositions containing them and methods for diagnosis and treatment of angiogenesis-related diseases using such polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2004:61492 USPATFULL  
TITLE: Self assembled nano-devices using DNA  
INVENTOR(S): Saraf, Ravi F., Briar Cliff Manor, NY, UNITED STATES  
Wickramesinghe, Hemantha K., Chappaqua, NY, UNITED STATES  
PATENT ASSIGNEE(S): IBM CORPORATION, Armonk, NY (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004046002	A1	20040311
APPLICATION INFO.:	US 2003-657093	A1	20030909 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2001-972958, filed on 10 Oct 2001, GRANTED, Pat. No. US 6656693 Continuation of Ser. No. US 2000-604680, filed on 27 Jun 2000, ABANDONED Continuation of Ser. No. US 1998-154575, filed on 17 Sep 1998, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	CONNOLLY BOVE LODGE & HUTZ LLP, SUITE 800, 1990 M STREET NW, WASHINGTON, DC, 20036-3425		
NUMBER OF CLAIMS:	84		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Page(s)		
LINE COUNT:	957		

AB An article of manufacture including an organic structure and inorganic

atoms bonded to specific locations on the organic structure.

L3 ANSWER 4 OF 13 USPATFULL on STN.

ACCESSION NUMBER: 2002:329828 USPATFULL  
TITLE: Methods and products for analyzing nucleic acids using  
nick translation  
INVENTOR(S): Wong, Gordon G., Brookline, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002187508	A1	20021212
APPLICATION INFO.:	US 2002-166567	A1	20020610 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-297080P	20010608 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Maria A. Trevisan, Wolf, Greenfield & Sacks, P.C., Federal Reserve Plaza, 600 Atlantic Avenue, Boston, MA, 02210	
NUMBER OF CLAIMS:	59	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1556	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to methods, products and systems for analyzing nucleic acid molecules using sequence specific nick translation. The methods can be used to obtain sequence information about the nucleic acid molecules and to assess the efficacy of therapeutic treatments that affect based on DNA damage induction.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2002:185588 USPATFULL  
TITLE: Self assembled nano-devices using DNA  
INVENTOR(S): Saraf, Ravi F., Briar Cliff Manor, NY, UNITED STATES  
Wickramasinghe, Hemantha K., Chappaqua, NY, UNITED STATES  
PATENT ASSIGNEE(S): International Business Machines Corporation, Armonk, NY, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002098500	A1	20020725
	US 6656693	B2	20031202
APPLICATION INFO.:	US 2001-972958	A1	20011010 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-604680, filed on 27 Jun 2000, ABANDONED Continuation of Ser. No. US 1998-154575, filed on 17 Sep 1998, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Connolly Bove Lodge & Hutz LLP, Suite 800, 1990 M Street, N.W., Washington, DC, 20036-3425		
NUMBER OF CLAIMS:	84		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Page(s)		
LINE COUNT:	958		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An article of manufacture including an organic structure and inorganic atoms bonded to specific locations on the organic structure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2002:170272 USPATFULL  
TITLE: FERROELECTRIC STORAGE READ-WRITE MEMORY  
INVENTOR(S): WICKRAMASINGHE, HEMANTHA K., CHAPPAQUA, NY, UNITED STATES  
SARAF, RAVI F., BRIAR CLIFF MANOR, NY, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002089005	A1	20020711
	US 6548843	B2	20030415
APPLICATION INFO.:	US 1998-190131	A1	19981112 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	ERIC J FRANKLIN, POLLOCK VANDE SANDE AND AMERNICK, 1990 M STREET N W, SUITE 800, WASHINGTON, DC, 20036		
NUMBER OF CLAIMS:	193		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Page(s)		
LINE COUNT:	1448		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A memory device including at least one pair of spaced apart conductors and a ferroelectric material between the pair of conductors. The pair of conductors is spaced apart a distance sufficient to permit a tunneling current therebetween.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 7 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2002:182564 USPATFULL  
TITLE: Inductively coupled wireless system and method  
INVENTOR(S): Burdick, Wayne A., Belmont, CA, United States  
Boyden, James H., Los Altos Hills, CA, United States  
Lynch, William C., Palo Alto, CA, United States  
PATENT ASSIGNEE(S): Interval Research Corporation, Palo Alto, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6424820	B1	20020723
APPLICATION INFO.:	US 1999-285511		19990402 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Trost, William		
ASSISTANT EXAMINER:	Nguyen, Simon		
LEGAL REPRESENTATIVE:	Van Pelt & Yi LLP		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	27 Drawing Figure(s); 20 Drawing Page(s)		
LINE COUNT:	2809		

AB A short range inductively coupled wireless communication system employs analog frequency modulation of a high frequency carrier and magnetic coupling between a transmitting antenna and a receiving antenna. A transmitter coupled to the transmitting antenna modulates multiple high-fidelity analog audio signals and digital control messages onto separate high frequency ("HF") carriers. The electric field portion of the transmitted electromagnetic field is substantially eliminated during transmission, while the magnetic field portion is substantially unaffected. The receiving antenna is coupled to a demodulator which reproduces the audio frequency signals and decodes control messages sent by the transmitter.

L3 ANSWER 8 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2002:136769 USPATFULL  
TITLE: Nano-devices using block-copolymers  
INVENTOR(S): Saraf, Ravi F., Briar Cliff Manor, NY, United States  
Wickramasinghe, Hemantha K., Chappaqua, NY, United States  
PATENT ASSIGNEE(S): International Business Machines Corporation, Armonk, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6403321	B1	20020611
	US 2002076703	A1	20020620
APPLICATION INFO.:	US 2001-799701		20010307 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-182874, filed on 30 Oct 1998, now patented, Pat. No. US 6218175, issued on 17 Apr 2001		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Siew, Jeffrey		
LEGAL REPRESENTATIVE:	Connolly Bove Lodge & Hutz, Trepp, Esq., Robert M.		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	412		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A structure including a substrate. A first electrode and a second electrode are arranged spaced apart from each other on the substrate. A polymer string is positioned on the substrate between the two electrodes, the polymer line has a width of less than about 50 nm.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 9 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2001:97615 USPATFULL  
TITLE: Differential Qualitative screening  
INVENTOR(S): Schweighoffer, Fabien, Vincennes, France  
Bracco, Laurent, Paris, France  
Tocque, Bruno, Courbevoie, France  
PATENT ASSIGNEE(S): ExonHit Therapeutics S.A., Paris, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6251590	B1	20010626
APPLICATION INFO.:	US 1998-46920		19980324 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1998-2997	19980311
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Horlick, Kenneth R.	
ASSISTANT EXAMINER:	Siew, Jeffrey	
LEGAL REPRESENTATIVE:	Clark & Elbing LLP, Bieker-Brady, Kristina	
NUMBER OF CLAIMS:	25	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	11 Drawing Figure(s); 11 Drawing Page(s)	
LINE COUNT:	1656	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to a method for identifying and/or cloning within a biological sample alternatively spliced nucleic acid regions occurring between two physiological conditions, comprising hybridizing RNA derived from a test condition with cDNA derived from the standard condition and further identifying and/or cloning nucleic acids corresponding to alternative forms of splicing.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 10 OF 13 USPATFULL on STN

ACCESSION NUMBER: 2001:55751 USPATFULL  
TITLE: Nano-devices using block-copolymers  
INVENTOR(S): Saraf, Ravi F., Briar Cliff Manor, NY, United States  
Wickramasinghe, Hemantha K., Chappaqua, NY, United States  
PATENT ASSIGNEE(S): International Business Machines Corporation, Armonk, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6218175	B1	20010417
APPLICATION INFO.:	US 1998-182874		19981030 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Horlick, Kenneth R.		
ASSISTANT EXAMINER:	Siew, Jeffrey		
LEGAL REPRESENTATIVE:	Pollock, Vande Sande & Amernick, Trepp, Robert M.		
NUMBER OF CLAIMS:	45		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	502		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A structure including a substrate. A first electrode and a second electrode are arranged spaced apart from each other on the substrate. A polymer string is positioned on the substrate between the two electrodes, the polymer line has a width of less than about 50 nm.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 11 OF 13 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

ACCESSION NUMBER: 2000-07084 BIOTECHDS  
TITLE: Self-assembled semiconducting nano-device is based on a structure comprising DNA molecule bonded to nanoparticle and extending between two electrodes; including an R loop and an RNA strand complementary to one strand of the DNA molecule inside the R loop  
AUTHOR: Saraf R F; Wickramasinghe H  
PATENT ASSIGNEE: International-Business-Machines  
LOCATION: Armonk, NY, USA.  
PATENT INFO: EP 987653 22 Mar 2000  
APPLICATION INFO: EP 1999-306777 26 Aug 1999  
PRIORITY INFO: US 1998-154575 17 Sep 1998  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
OTHER SOURCE: WPI: 2000-239256 [21]  
AN 2000-07084 BIOTECHDS

AB A nano-device structure comprises a substrate, first and second electrodes on the substrate, a DNA molecule extending between the two electrodes, and a nanoparticle bonded to the DNA. The DNA molecule includes an R-loop and the nanoparticle is bonded to the DNA molecule inside the



R-loop. The structure also includes an RNA strand complementary to one strand of the DNA molecule inside the R-loop. Also claimed are a method of producing the structure and a method for controlling a device that comprises the structure comprising: creating a bias in the electrically conducting material; and regulating a change in the nanoparticle to effect a change in the current in the electrically conducting material. Production of devices on a nanometric scale by overcoming the limitations imposed by photolithographic techniques. The devices have extremely small active feature sizes. (19pp)

L3 ANSWER 12 OF 13 USPATFULL on STN

ACCESSION NUMBER: 97:13221 USPATFULL

TITLE: Three-dimensional imaging system using laser generated ultrashort x-ray pulses

INVENTOR(S): Bardash, Michael J., 453 Fourth St., Apt. 1R, Brooklyn, NY, United States 11215

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5602894		19970211
APPLICATION INFO.:	US 1994-285821		19940804 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Wong, Don		
LEGAL REPRESENTATIVE:	Gottlieb, Rackman & Reisman, P.C.		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 12 Drawing Page(s)		
LINE COUNT:	620		

AB An apparatus for imaging the interior of an object illuminates the object with a source of picosecond collimated x-ray pulses. An array of x-ray detectors senses pulses of Compton scattered x-rays from the object and a processor accumulates the data to construct an image of the object by accumulating data from ellipsoidal sections of the object.

L3 ANSWER 13 OF 13 USPATFULL on STN

ACCESSION NUMBER: 94:77999 USPATFULL

TITLE: Superconductor logic and switching circuits

INVENTOR(S): Ma, Qiyuan, The University of British Columbia Office of Research Services and Industry Liaison, 2194 Health Sciences Mall, Room 331 - I.R.C. Building, Vancouver, British Columbia, Canada  
Hardy, Walter N., The University of British Columbia Office of Research Services and Industry Liaison, 2194 Health Sciences Mall, Room 331 - I.R.C. Building, Vancouver, British Columbia, Canada V6T 1W5

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5345114		19940906
APPLICATION INFO.:	US 1992-961342		19921015 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Westin, Edward P.		
ASSISTANT EXAMINER:	Roseen, Richard		
LEGAL REPRESENTATIVE:	Oyen Wiggs Green & Mutala		
NUMBER OF CLAIMS:	17		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	23 Drawing Figure(s); 11 Drawing Page(s)		
LINE COUNT:	902		

AB Current controlled superconductor switches formed by reactive patterning

or other fabrication techniques may be used to form logic circuits including OR, AND, NOR, NAND, and NOT gates, a circuit breaker or an analog-to-digital converter. Each switch contains a superconductor resistor electrically connected in parallel with a non-superconductor resistor. The superconductor resistor has a critical current  $I_{sub.c}$ , such that it exhibits no electrical resistance to current flow less than  $I_{sub.c}$ , and exhibits positive electrical resistance to current flow greater than or equal to  $I_{sub.c}$ . The switch can accordingly be toggled between two states (i.e. superconducting and non-superconducting) by suitably controlling the current flowing through the switch. This switching behaviour provides the basis for constructing logic gates and other digital circuit devices.

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FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, EMBASE, BIOTECHDS, USPATFULL'  
ENTERED AT 17:45:09 ON 09 AUG 2006

L1 85 S R-LOOP AND (NANOPARTICLE OR SILVER OR GOLD OR ELECTRODE OR EL  
L2 13 S L1 AND SUBSTRATE  
L3 13 DUP REM L2 (0 DUPLICATES REMOVED)

=> dup rem l1  
PROCESSING COMPLETED FOR L1  
L4 84 DUP REM L1 (1 DUPLICATE REMOVED)

=> d ibib abs l4 1-10

L4 ANSWER 1 OF 84 USPATFULL on STN  
ACCESSION NUMBER: 2006:84682 USPATFULL  
TITLE: Loop impedance meter  
INVENTOR(S): Batten, Douglas William, Watford, UNITED KINGDOM  
Gordon, Martin Ian, Watford, UNITED KINGDOM  
PATENT ASSIGNEE(S): Martindale Electric Company Ltd., Watford,  
Hertfordshire, UNITED KINGDOM, WD1 1RA (non-U.S.  
corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2006071675	A1	20060406	
APPLICATION INFO.:	US 2002-493508	A1	20021024	(10)
	WO 2002-GB4797		20021024	
			20051109	PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	GB 2001-25519	20011024
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	STETINA BRUNDA GARRED & BRUCKER, 75 ENTERPRISE, SUITE 250, ALISO VIEJO, CA, 92656, US	
NUMBER OF CLAIMS:	48	
EXEMPLARY CLAIM:	1-47	
NUMBER OF DRAWINGS:	7 Drawing Page(s)	
LINE COUNT:	737	
AB	A loop impedance meter for testing A.C. electrical mains supplies,	

comprises an electronic control circuit for connecting a load resistance intermittently between the A.C. mains supply terminal and the earth terminal to measure the potential difference between those terminals and to provide an indication of the loop impedance of the A.C. mains supply from that potential difference, wherein the value of the load resistance measured in ohms is in the range of one sixth to twice times the value of the r.m.s. mains voltage rating of the meter measured in volts, so as to deliver about 1/2 A to 6 A intermittent current flow. Further, a loop impedance meter is disclosed in which the control circuit is arranged to allow a train of short pulses of current flow through the load resistance and the loop, the pulse train beginning its sequence with a first train of pulses for preconditioning any RCD present in the loop to temporarily desensitise it to one or more measurement pulses which then follow, the pulses of the first train being of generally increasing width. In addition, a loop impedance meter is disclosed in which the control circuit is arranged to: allow a train of short pulses of current flow through the load resistance and the loop, the pulse train beginning its sequence with a first train of pulses for preconditioning any RCD present in the loop to temporarily desensitise it to one or more measurement pulses which then follow; and take reference measurements before, during and after at least one measurement pulse to calculate a compensation for ring generated on each measurement pulse. Also disclosed is a loop impedance meter for testing A.C. electrical mains supplies, comprising an electronic control circuit for connecting a load resistance intermittently between the A.C. mains supply terminal and the earth terminal to measure the potential difference between those terminals and to provide an indication of the loop impedance of the A.C. mains supply from that potential difference, wherein the control circuit is arranged to allow a train of short pulses of current flow through the load resistance and the loop, the pulse train comprising measurement pulses of a range of different widths all less than one millisecond, the control means being arranged to extrapolate the impedance measurements to provide an indication of the effective impedance at the A.C. mains supply frequency.

L4 ANSWER 2 OF 84 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 ACCESSION NUMBER: 2006:462714 SCISEARCH  
 THE GENUINE ARTICLE: BED86  
 TITLE: An H-infinity loop-shaping approach to steering control for high-performance motorcycles  
 AUTHOR: Evangelou S (Reprint); Limebeer D J N; Sharp R S; Smith M C  
 CORPORATE SOURCE: Univ London Imperial Coll Sci Technol & Med, Dept Elect & Elect Engn, London SW7 2AZ, England (Reprint); Univ Cambridge, Dept Engn, Cambridge CB2 1PZ, England  
 s.evangelou@imperial.ac.uk; d.limebeer@imperial.ac.uk; robin.sharp@imperial.ac.uk; mcs@eng.cam.ac.uk  
 COUNTRY OF AUTHOR: England  
 SOURCE: CONTROL OF UNCERTAIN SYSTEMS: MODELLING, APPROXIMATION, AND DESIGN, (2006) Vol. 329, pp. 257-275.  
 ISSN: 0170-8643.  
 PUBLISHER: SPRINGER-VERLAG BERLIN, HEIDELBERGER PLATZ 3, D-14197 BERLIN, GERMANY.  
 DOCUMENT TYPE: Article; Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 49  
 ENTRY DATE: Entered STN: 18 May 2006  
 Last Updated on STN: 18 May 2006  
 \*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*  
 AB A fixed-parameter active steering compensation scheme that is

designed to improve the dynamic behaviour of high-performance motorcycles is introduced. The design methodology is based on the Clover-McFarlane R loop-shaping procedure. The steering compensator so designed, is seen as a possible replacement for a conventional steering damper, or as an alternative to the more recently introduced passive mechanical compensation networks. In comparison with these networks, active compensation has several potential advantages including: (i) the positive-reality of the compensator is no longer a requirement; (ii) it is no longer necessary for the device to be low-order; (iii) in a software implementation, it is easy to adjust the compensator parameters and (iv) an adaptive, or parameter varying version of this scheme is a routine extension. The study makes use of computer simulations that exploit a state-of-the-art motorcycle model whose parameter set is based on a Suzuki GSX-R1000 sports machine. The results extend further the significant improvements achieved in the dynamic properties of the primary oscillatory modes ('wobble' and 'weave') obtained previously by replacing the conventional steering damper with passive mechanical steering compensation schemes.

L4 ANSWER 3 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2005:286943 USPATFULL  
 TITLE: Retrons for gene targeting  
 INVENTOR(S): Rozwadowski, Kevin L., Saskatoon Saskatchewan, CANADA  
 Lydiate, Derek J., Saskatoon Saskatchewan, CANADA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005250207	A1	20051110
APPLICATION INFO.:	US 2003-516779	A1	20030605 (10)
	WO 2003-CA850		20030605
			20050629 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-60386640	20020605
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KLARQUIST SPARKMAN, LLP, 121 SW SALMON STREET, SUITE 1600, PORTLAND, OR, 97204, US	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	15 Drawing Page(s)	
LINE COUNT:	6502	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods and nucleic acid constructs that may be used to modify a nucleic acid of interest at a target locus within the genome of a host. In some aspects, the invention contemplates producing in vivo a gene targeting substrate (GTS), which may be comprised of both DNA and RNA components. The gene targeting substrate may comprise a gene targeting nucleotide sequence (GTNS), which is homologous to the target locus, but comprises a sequence modification compared to the target locus. The gene targeting substrate may be produced by reverse transcription of a gene targeting message RNA (gtmRNA). The gene targeting message RNA may be folded for self-priming for reverse transcription by a reverse transcriptase. The gene targeting message RNA may in turn be the product of transcription of a gene targeting construct (GTC) encoding the gene targeting message RNA. The gene targeting construct may for example be a DNA sequence integrated into the genome of the host, or integrated into an extrachromosomal element. Following expression of the gene targeting systems of the invention, hosts may for example be selected having genomic modifications at a target locus that correspond to the sequence modification present on the gene targeting nucleotide sequence. In some embodiments, the structure

of retrons may be adapted for use in the gene targeting systems of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2005:171759 USPATFULL  
TITLE: Pigment epithelium derived factor from human plasma and methods of use thereof  
INVENTOR(S): Shaltiel, Shmuel, Rehovot, ISRAEL  
Schvartz, Iris, Yavne, ISRAEL

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005148508	A1	20050707
APPLICATION INFO.:	US 2004-882638	A1	20040702 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	IL 2002-147444	20020103
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	WINSTON & STRAWN LLP, 1700 K STREET, N.W., WASHINGTON, DC, 20006, US	
NUMBER OF CLAIMS:	48	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	14 Drawing Page(s)	
LINE COUNT:	1649	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polypeptides of pigment epithelium derived factor (PEDF) isolated from human plasma and fragments thereof, methods for preparing them, pharmaceutical compositions containing them and methods for diagnosis and treatment of angiogenesis-related diseases using such polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2005:134661 USPATFULL  
TITLE: Knitwear modeling  
INVENTOR(S): Xu, Ying-Qing, Beijing, CHINA  
Guo, Baining, Bellevue, WA, UNITED STATES  
Zhong, Hua, Redmond, WA, UNITED STATES  
Shum, Heung-Yeung, Beijing, CHINA  
PATENT ASSIGNEE(S): Microsoft Corporation, Redmond, WA, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005115285	A1	20050602
	US 6980936	B2	20051227
APPLICATION INFO.:	US 2004-995986	A1	20041120 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-620533, filed on 23 Jul 2000, GRANTED, Pat. No. US 6871166		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	LYON & HARR, LLP, 300 ESPLANADE DRIVE, SUITE 800, OXNARD, CA, 93036, US		
NUMBER OF CLAIMS:	33		
EXEMPLARY CLAIM:	1-34		
NUMBER OF DRAWINGS:	20 Drawing Page(s)		
LINE COUNT:	854		

AB Knitwear modeling is disclosed. A macrostructure corresponding to a three-dimensional object is generated, based on a stitch pattern and

optionally a color pattern. Yarn microstructure is generated and applied to the macrostructure to yield a knitwear model. The stitch positions of the macrostructure can be perturbed to achieve stitch position irregularities. The fluffiness of the yarn microstructure can be controlled. In an alternative embodiment, a two-dimensional knitwear texture is generated, which can then be mapped to a three-dimensional object to yield a knitwear model.

L4 ANSWER 6 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2005:44559 USPATFULL  
 TITLE: Process for the preparation of urea  
 INVENTOR(S): Jonckers, Kees, Susteren, NETHERLANDS  
 Meessen, Jozef Hubert, Gulpen, NETHERLANDS

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005038293	A1	20050217
	US 6921838	B2	20050726
APPLICATION INFO.:	US 2004-490617	A1	20040908 (10)
	WO 2002-NL626		20020926

	NUMBER	DATE
PRIORITY INFORMATION:	NL 2001-1019081	20011001
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Pillsbury Winthrop, Intellectual Property Group, 1600 Tysons Boulevard, McLean, VA, 22102	
NUMBER OF CLAIMS:	13	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	534	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a process for the preparation of urea from ammonia and carbon dioxide with the application of a synthesis reactor, a condenser, a scrubber and a stripper, wherein an outlet of the stripper, through which a gas stream is discharged during operation, is functionally connected to the inlet of the condenser and to the inlet of the reactor and wherein an outlet of the condenser is functionally connected to an inlet of the scrubber and wherein the obtained reaction mixture is stripped in the stripper in countercurrent with one of the starting materials, wherein the division of the gas stream from the stripper to the condenser and the reactor is completely or partly controlled by one or more controlling elements present in the non-common part of the functional connection between the outlet of the stripper and the inlet of the condenser and/or the inlet of the reactor.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 7 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2005:95029 USPATFULL  
 TITLE: Qualitative differential screening  
 INVENTOR(S): Schweighoffer, Fabien, Vincennes, FRANCE  
 Bracco, Laurent, Paris, FRANCE  
 Tocque, Bruno, Courbevoie, FRANCE  
 PATENT ASSIGNEE(S): Exonhit Therapeutics S.A., Paris, FRANCE (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6881571	B1	20050419
	WO 9946403		19990916

APPLICATION INFO.: US 2000-623828 19990311 (9)  
WO 1999-FR547 19990311  
20001130 PCT 371 date  
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2000-46920, filed  
on 24 Mar 1998, Pat. No. US 6251590

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1998-2997	19980311
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Siew, Jeffrey	
LEGAL REPRESENTATIVE:	Bieker-Brady, Kristina, Clark & Elbing LLP	
NUMBER OF CLAIMS:	22	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	26 Drawing Figure(s); 26 Drawing Page(s)	
LINE COUNT:	2721	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention concerns a method for identifying and/or cloning nucleic acid regions representing qualitative differences associated with alternative splicing events and/or with insertions, deletions located in RNA transcribed genome regions, between two physiological situations, comprising either hybridization of RNA derived from the test situation with cDNA's derived from the reference situation and/or reciprocally, or double-strand hybridization of cDNA derived from the test situation with cDNA's derived from the reference situation; and identifying and/or cloning nucleic acids representing qualitative differences. The invention also concerns compositions or banks of nucleic acids representing qualitative differences between two physiological situations, obtainable by the above method, and their use as probe, for identifying genes or molecules of interest, or still for example in methods of pharmacogenomics, and profiling of molecules relative to their therapeutic and/or toxic effects. The invention further concerns the use of dysregulation of splicing RNA as markers for predicting molecule toxicity and/or efficacy, and as markers in pharmacogenomics.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 8 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2005:71417 USPATFULL  
TITLE: Knitwear modeling  
INVENTOR(S): Xu, Ying-Qing, Beijing, CHINA  
Guo, Baining, Bellevue, WA, United States  
Zhong, Hua, Redmond, WA, United States  
Shum, Heung-Yeung, Beijing, CHINA  
PATENT ASSIGNEE(S): Microsoft Corp., Redmond, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6871166	B1	20050322
APPLICATION INFO.:	US 2000-620533		20000723 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Frejd, Russell		
LEGAL REPRESENTATIVE:	Lyon & Harr, LLP, Lyon, Katrina A.		
NUMBER OF CLAIMS:	32		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	20 Drawing Figure(s); 20 Drawing Page(s)		
LINE COUNT:	881		

AB Knitwear modeling is disclosed. A macrostructure corresponding to a three-dimensional object is generated, based on a stitch pattern and optionally a color pattern. Yarn microstructure is generated and applied

to the macrostructure to yield a knitwear model. The stitch positions of the macrostructure can be perturbed to achieve stitch position irregularities. The fluffiness of the yarn microstructure can be controlled. In an alternative embodiment, a two-dimensional knitwear texture is generated, which can then be mapped to a three-dimensional object to yield a knitwear model.

L4 ANSWER 9 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2004:274926 USPATFULL  
 TITLE: Knitwear modeling  
 INVENTOR(S): Xu, Ying-Qing, Beijing, CHINA  
 Guo, Baining, Bellevue, WA, UNITED STATES  
 Zhong, Hua, Redmond, WA, UNITED STATES  
 Shum, Heung-Yeung, Beijing, CHINA  
 PATENT ASSIGNEE(S): Microsoft Corporation, Redmond, WA (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004215431	A1	20041028
APPLICATION INFO.:	US 2004-850653	A1	20040521 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-620533, filed on 23 Jul 2000, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	LYON & HARR, LLP, 300 ESPLANADE DRIVE, SUITE 800, OXNARD, CA, 93036		
NUMBER OF CLAIMS:	31		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	20 Drawing Page(s)		
LINE COUNT:	793		

AB Knitwear modeling is disclosed. A macrostructure corresponding to a three-dimensional object is generated, based on a stitch pattern and optionally a color pattern. Yarn microstructure is generated and applied to the macrostructure to yield a knitwear model. The stitch positions of the macrostructure can be perturbed to achieve stitch position irregularities. The fluffiness of the yarn microstructure can be controlled. In an alternative embodiment, a two-dimensional knitwear texture is generated, which can then be mapped to a three-dimensional object to yield a knitwear model.

L4 ANSWER 10 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2004:247233 USPATFULL  
 TITLE: Qualitative differential screening  
 INVENTOR(S): Schweighoffer, Fabien, Vincennes, FRANCE  
 Bracco, Laurent, Paris, FRANCE  
 Tocque, Bruno, Courbevoie, FRANCE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004191828	A1	20040930
APPLICATION INFO.:	US 2004-833440	A1	20040428 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-623828, filed on 30 Nov 2000, PENDING A 371 of International Ser. No. WO 1999-FR547, filed on 11 Mar 1999, UNKNOWN		
	Continuation-in-part of Ser. No. US 1998-46920, filed on 24 Mar 1998, GRANTED, Pat. No. US 6251590		

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1998-2997	19980311



DOCUMENT TYPE: Utility  
 FILE SEGMENT: APPLICATION  
 LEGAL REPRESENTATIVE: CLARK & ELBING LLP, 101 FEDERAL STREET, BOSTON, MA,  
 02110  
 NUMBER OF CLAIMS: 22  
 EXEMPLARY CLAIM: 1  
 NUMBER OF DRAWINGS: 26 Drawing Page(s)  
 LINE COUNT: 2738

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention concerns a method for identifying and/or cloning nucleic acid regions representing qualitative differences associated with alternative splicing events and/or with insertions, deletions located in RNA transcribed genome regions, between two physiological situations, comprising either hybridization of RNA derived from the test situation with cDNA's derived from the reference situation and/or reciprocally, or double-strand hybridization of cDNA derived from the test situation with cDNA's derived from the reference situation; and identifying and/or cloning nucleic acids representing qualitative differences. The invention also concerns compositions or banks of nucleic acids representing qualitative differences between two physiological situations, obtainable by the above method, and their use as probe, for identifying genes or molecules of interest, or still for example in methods of pharmacogenomics, and profiling of molecules relative to their therapeutic and/or toxic effects. The invention further concerns the use of dysregulation of splicing RNA as markers for predicting molecule toxicity and/or efficacy, and as markers in pharmacogenomics.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d ibib abs 14 11-25

L4 ANSWER 11 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2004:100428 USPATFULL  
 TITLE: Tracking switchmode power converter for telephony interface circuit  
 INVENTOR(S): Boudreaux, Ralph R., JR., Madison, AL, UNITED STATES  
 PATENT ASSIGNEE(S): Adtran, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004076289	A1	20040422
	US 7076055	B2	20060711
APPLICATION INFO.:	US 2003-684725	A1	20031014 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-427348, filed on 26 Oct 1999, GRANTED, Pat. No. US 6668060		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	ALLEN, DYER, DOPPELT, MILBRATH & GILCHRIST P.A., 1401 CITRUS CENTER 255 SOUTH ORANGE AVENUE, P.O. BOX 3791, ORLANDO, FL, 32802-3791		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Page(s)		
LINE COUNT:	381		

AB A comparator-based switchmode power converter monitors the most negative of the tip and ring line voltages, to control the supply voltage to a SLIC. The voltage applied to the SLIC's power terminals is slightly higher than the sensed voltage for different loop signaling conditions, including loop start, ground start balanced ringing. The switchmode converter includes a comparator coupled to a DC-DC output node downstream of a MOSFET switch installed in a DC supply rail of a source of DC supply voltage, and coupled to a power supply terminal of the

SLIC. The comparator is also coupled to a set point node, which is coupled through a voltage offset path to each of tip and ring portions of the telephone line. The comparator functions to control the conductivity of the MOSFET to provide a modulated DC voltage to the SLIC, in accordance with that one of tip and ring loop voltages having the largest magnitude, so as to provide power supply tracking during loop current, superimposed voice signals, loop start, ground start and balanced ringing.

L4 ANSWER 12 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2004:77547 USPATFULL

TITLE: Loop structures for supporting diagnostic and therapeutic elements in contact with body tissue and expandable push devices for use with same

INVENTOR(S): Jenkins, Thomas R., Oakland, CA, UNITED STATES  
Thompson, Russell B., Los Altos, CA, UNITED STATES  
Burnside, Robert, Mountain View, CA, UNITED STATES  
Hegde, Anant V., Newark, CA, UNITED STATES  
Swanson, David K., Mountain View, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004059327	A1	20040325
	US 6908464	B2	20050621
APPLICATION INFO.:	US 2003-659947	A1	20030910 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-447180, filed on 22 Nov 1999, GRANTED, Pat. No. US 6645199		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	HENRICKS SLAVIN AND HOLMES LLP, SUITE 200, 840 APOLLO STREET, EL SEGUNDO, CA, 90245		
NUMBER OF CLAIMS:	48		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	13 Drawing Page(s)		
LINE COUNT:	1145		

AB An apparatus that facilitates the creation of circumferential lesions in body tissue. The apparatus includes a first probe having a loop structure that supports electrodes or other operative elements against the body tissue and a second probe with an expandable push structure that may be used to urge the loop structure against body tissue.

L4 ANSWER 13 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2004:61492 USPATFULL

TITLE: Self assembled nano-devices using DNA

INVENTOR(S): Saraf, Ravi F., Briar Cliff Manor, NY, UNITED STATES  
Wickramesinghe, Hemantha K., Chappaqua, NY, UNITED STATES

PATENT ASSIGNEE(S): IBM CORPORATION, Armonk, NY (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004046002	A1	20040311
APPLICATION INFO.:	US 2003-657093	A1	20030909 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2001-972958, filed on 10 Oct 2001, GRANTED, Pat. No. US 6656693 Continuation of Ser. No. US 2000-604680, filed on 27 Jun 2000, ABANDONED Continuation of Ser. No. US 1998-154575, filed on 17 Sep 1998, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	CONNOLLY BOVE LODGE & HUTZ LLP, SUITE 800, 1990 M		

STREET NW, WASHINGTON, DC, 20036-3425  
NUMBER OF CLAIMS: 84  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 4 Drawing Page(s)  
LINE COUNT: 957  
AB An article of manufacture including an organic structure and inorganic atoms bonded to specific locations on the organic structure.

L4 ANSWER 14 OF 84 USPATFULL on STN  
ACCESSION NUMBER: 2004:329774 USPATFULL  
TITLE: DNA sequences, recombinant DNA molecules and processes for producing human interferon-like polypeptides  
INVENTOR(S): Weissmann, Charles, Zurich, SWITZERLAND  
PATENT ASSIGNEE(S): Biogen, Inc., Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6835557	B1	20041228
APPLICATION INFO.:	US 1995-487280		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1981-223108, filed on 7 Jan 1981, now abandoned Continuation-in-part of Ser. No. US 1980-118084, filed on 4 Feb 1980, now patented, Pat. No. US 4530901		

	NUMBER	DATE
PRIORITY INFORMATION:	EP 1980-300079	19800108
	EP 1980-301100	19800403
	GB 1980-31737	19801002
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Martinell, James	
LEGAL REPRESENTATIVE:	Haley, Jr., James F., Weissman, Jennifer T., Wong, Connie	
NUMBER OF CLAIMS:	27	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	36 Drawing Figure(s); 31 Drawing Page(s)	
LINE COUNT:	3303	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB DNA sequences, recombinant DNA molecules and hosts transformed with them which produce polypeptides displaying a biological or immunological activity of human interferon, the genes coding for these polypeptides and methods of making and using these molecules, hosts, genes and polypeptides. The DNA sequences are characterized in that they code for a polypeptide displaying a biological or immunological activity of human interferon. In appropriate hosts these DNA sequences and recombinant DNA molecules permit the production and identification of genes and polypeptides displaying a biological or immunological activity of human interferon and their use in antiviral and antitumor or anticancer agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 15 OF 84 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
ACCESSION NUMBER: 2004:286812 BIOSIS  
DOCUMENT NUMBER: PREV200400285569  
TITLE: Investigation Of Amino Acids In The Loop C Region Of The Mouse 5-HT3A R By Alanine Scanning Mutagenesis.  
AUTHOR(S): Suryanarayanan, Asha [Reprint Author]; Joshi, Prasad R; Kulkarni, Trupti R; Mani, Muthalagi; Schulte, Marvin K

CORPORATE SOURCE: Basic Pharmaceutical Sciences, The University of Louisiana  
at Monroe, 700 University Avenue, Rm 301G, Sugar Hall,  
Monroe, Louisiana, 71209, USA  
asha\_s4@yahoo.com

SOURCE: FASEB Journal, (2004) Vol. 18, No. 4-5, pp. Abst. 169.8.  
<http://www.fasebj.org/>. e-file.  
Meeting Info.: FASEB Meeting on Experimental Biology:  
Translating the Genome. Washington, District of Columbia,  
USA. April 17-21, 2004. FASEB.  
ISSN: 0892-6638 (ISSN print).

DOCUMENT TYPE: Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)

LANGUAGE: English

ENTRY DATE: Entered STN: 16 Jun 2004

Last Updated on STN: 16 Jun 2004

AB 5-HT3 receptors are pentameric membrane-bound receptors that belong to the  
ligand gated ion channel (LGIC) superfamily. The ligand-binding site of  
these receptors is located in the extracellular domain. Previous  
mutagenesis studies and structural homology of LGICs with the  
Acetylcholine Binding Protein (AChBP) suggest that the binding site is  
composed of six loops: A-F. In this study, we have used alanine scanning  
mutagenesis to investigate the importance of residues in the putative loop  
C region of the mouse 5-HT3AR for structural integrity, surface  
expression, ligand-receptor interactions (&39;binding&39;) and/or  
&39;gating&39;. To this end, amino acids E224-Y233 of the mouse 5-HT3AR  
were sequentially mutated to Alanine. Each mutant was characterized using  
radioligand binding to (3H) Granisetron. In addition, competition binding  
assays employing 5-HT and mCPBG were also carried out.  
Electrophysiological characteristics of each alanine mutant were studied  
using two-electrode voltage clamp studies in *Xenopus laevis*  
oocytes. In order to further investigate the roles of mutants that showed  
altered binding and/or function, secondary mutations were constructed and  
characterized by both radioligand and two-electrode voltage  
clamp studies. In addition, the cellular localization of alanine mutants  
that showed no binding and/or function was evaluated by epitope tagging  
and immunofluorescence studies. The results and conclusions of this  
mutagenesis study will be presented. .

L4 ANSWER 16 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2003:330195 USPATFULL

TITLE: Bacterial strains which overproduce riboflavin

INVENTOR(S): Perkins, John B., Reading, MA, UNITED STATES

Sloma, Alan, Watertown, MA, UNITED STATES

Pero, Janice G., Lexington, MA, UNITED STATES

Hatch, Randolph T., Wellesley, MA, UNITED STATES

Hermann, Theron, Framingham, MA, UNITED STATES

Erdenberger, Thomas, Arlington, MA, UNITED STATES

PATENT ASSIGNEE(S): ROCHE VITAMINS, INC. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003232406	A1	20031218
APPLICATION INFO.:	US 2003-361522	A1	20030210 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-306615, filed on 6 May 1999, GRANTED, Pat. No. US 6551813 Division of Ser. No. US 1998-138775, filed on 24 Aug 1998, GRANTED, Pat. No. US 5925538 Division of Ser. No. US 1995-384626, filed on 6 Feb 1995, GRANTED, Pat. No. US 5837528		
	Continuation of Ser. No. US 1992-873572, filed on 21 Apr 1992, ABANDONED Continuation of Ser. No. US 1990-581048, filed on 11 Sep 1990, ABANDONED		
	Continuation-in-part of Ser. No. US 1989-370378, filed on 22 Jun 1989, ABANDONED		

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: BRYAN CAVE LLP, 1290 Avenue of the Americas, 33rd  
Floor, New York, NY, 10167-0034  
NUMBER OF CLAIMS: 47  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 38 Drawing Page(s)  
LINE COUNT: 2365

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Vectors and recombinant bacteria for overproducing riboflavin, in which nucleic acid overproducing riboflavin biosynthetic proteins is introduced in the chromosome of the host organism, e.g. at multiple sites and in multiple copies per site. A rib operon having at least five genes is used to make such recombinant bacteria.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 17 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2003:237774 USPATFULL  
TITLE: Qualitative differential screening  
INVENTOR(S): Tocque, Bruno, Courbevoie, FRANCE  
Bracco, Laurent, Paris, FRANCE  
Edon, Florence, Sevrans, FRANCE  
Schweighoffer, Fabien, Vincennes, FRANCE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003165931	A1	20030904
APPLICATION INFO.:	US 2002-283881	A1	20021030 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2000-623828, filed on 30 Nov 2000, PENDING A 371 of International Ser. No. WO 1999-FR547, filed on 11 Mar 1999, UNKNOWN A 371 of International Ser. No. US 1998-46920, filed on 24 Mar 1998, GRANTED, Pat. No. US 6251590		

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1998-2997	19980311
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	CLARK & ELBING LLP, 101 FEDERAL STREET, BOSTON, MA, 02110	

NUMBER OF CLAIMS: 39  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 34 Drawing Page(s)  
LINE COUNT: 3753

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention concerns a method for identifying and/or cloning nucleic acid regions representing qualitative differences associated with alternative splicing events and/or with insertions, deletions located in RNA transcribed genome regions, between two physiological situations, comprising either hybridization of RNA derived from the test situation with cDNA's derived from the reference situation and/or reciprocally, or double-strand hybridization of cDNA derived from the test situation with cDNA's derived from the reference situation; and identifying and/or cloning nucleic acids representing qualitative differences. The invention also concerns compositions or banks of nucleic acids representing qualitative differences between two physiological situations, obtainable by the above method, and their use as probe, for identifying genes or molecules of interest, or still for example in methods of pharmacogenomics, and profiling of molecules relative to their therapeutic and/or toxic effects. The invention further concerns the use of dysregulation of splicing RNA as markers for predicting

molecule toxicity and/or efficacy, and as markers in pharmacogenomics.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 18 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2003:332655 USPATFULL

TITLE: Tracking switchmode power converter for telephony interface circuit

INVENTOR(S): Boudreaux, Jr., Ralph R., Madison, AL, United States

PATENT ASSIGNEE(S): Adtran, Inc., Huntsville, AL, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6668060	B1	20031223
APPLICATION INFO.:	US 1999-427348		19991026 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Barnie, Rexford		
LEGAL REPRESENTATIVE:	Allen, Dyer, Doppelt, Milbrath & Gilchrist, P.A.		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	3		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	370		

AB A comparator-based switchmode power converter monitors the most negative of the tip and ring line voltages, to control the supply voltage to a SLIC. The voltage applied to the SLIC's power terminals is slightly higher than the sensed voltage for different loop signaling conditions, including loop start, ground start balanced ringing. The switchmode converter includes a comparator coupled to a DC-DC output node downstream of a MOSFET switch installed in a DC supply rail of a source of DC supply voltage, and coupled to a power supply terminal of the SLIC. The comparator is also coupled to a set point node, which is coupled through a voltage offset path to each of tip and ring portions of the telephone line. The comparator functions to control the conductivity of the MOSFET to provide a modulated DC voltage to the SLIC, in accordance with that one of tip and ring loop voltages having the largest magnitude, so as to provide power supply tracking during loop current, superimposed voice signals, loop start, ground start and balanced ringing.

L4 ANSWER 19 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2003:278629 USPATFULL

TITLE: Method translation in gas chromatography

INVENTOR(S): Blumberg, Leonid M., 6 Victoria Ct., Hockessin, DE, United States 19707

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6634211	B1	20031021
APPLICATION INFO.:	US 2002-147955		20020516 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-291406P	20010516 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Williams, Hezron	
LEGAL REPRESENTATIVE:	Luchs, James K.	
NUMBER OF CLAIMS:	16	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)	

LINE COUNT: 1437

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method is provided for translating from a first method for performing gas chromatographic analysis to a second method for performing gas chromatographic analysis in a gas chromatography system without changing a peak elution pattern. Unlike the known method translation techniques that work only with the constant pressure gas chromatographic analyses, the invention can translate the gas chromatographic methods where column pressure and/or carrier gas flow rate change during the analysis by an arbitrary program.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 20 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2003:116656 USPATFULL

TITLE: Methods and apparatus for finding semantic information, such as usage logs, similar to a query using a pattern lattice data space

INVENTOR(S): Altschuler, Steven, Redmond, WA, United States  
Ingerman, David V., Princeton, NJ, United States  
Wu, Lani, Redmond, WA, United States  
Zhao, Lei, Bellevue, WA, United States

PATENT ASSIGNEE(S): Microsoft Corporation, Redmond, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6556983	B1	20030429
APPLICATION INFO.:	US 2000-481615		20000112 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Davis, George B.		
LEGAL REPRESENTATIVE:	Lee & Hayes, PLLC		
NUMBER OF CLAIMS:	48		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	74 Drawing Figure(s); 58 Drawing Page(s)		
LINE COUNT:	3573		

AB A pattern lattice data space as a framework for analyzing data, in which both schema-based and statistical analysis are accommodated, is defined. Ways to manage the size of the lattice structures in the pattern lattice data space are described. Utilities to classify or cluster, search (find similar data), or relate data using lattice fragments in the pattern lattice data space are also described. Superpattern cone or lattice generation function, which may be used by the classification and clustering functions, is also described. In addition, a subpattern cone or lattice generation process, which may be used by the search (find similar data) and data relating functions, is also described. Finally, a function to label, in readily understandable "pidgin", categories which classify information, is also described.

L4 ANSWER 21 OF 84 USPATFULL on STN

ACCESSION NUMBER: 2003:108983 USPATFULL

TITLE: Nutrient medium for bacterial strains which overproduce riboflavin

INVENTOR(S): Perkins, John B., Reading, MA, United States  
Sloma, Alan, Watertown, MA, United States  
Pero, Janice G., Lexington, MA, United States  
Hatch, Randolph T., Wellesley, MA, United States  
Hermann, Theron, Framingham, MA, United States  
Erdenberger, Thomas, Arlington, MA, United States

PATENT ASSIGNEE(S): Roche Vitamins Inc., Parsippany, NJ, United States (U.S. corporation)